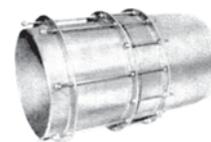


611 Expansion Joints, Single End



611 Single End Expansion Joints are slip-type joints that provide for expansion/contraction in pipelines.

The standard model provides for 10 inches of concentrated axial pipe movement (traverse). When required, Model 611 Expansion Joints can be designed for any amount of movement (more or less than 10 inches). They are available in several configurations to meet varying application requirements (without slip pipe without limit rods, with slip pipe without limit rods or with slip pipe with limit rods).

For convenience of connecting the expansion joint into the pipeline, 611 Expansion Joints can be furnished with various end configurations. The ends can be beveled for welding, flanged, threaded, grooved and plain end for use with locking type or harnessed mechanical couplings. They can also be furnished with mixed end connections (i.e. one end flanged and one end beveled for welding).

Standard model 611 Expansion Joints are manufactured from carbon steel and furnished with a hard chrome-plated slip pipe. When service conditions dictate, stainless steel slip pipe can be furnished or the expansion joint can be fabricated from various types of weldable metals such as monel, stainless steel or high strength low alloy steel.

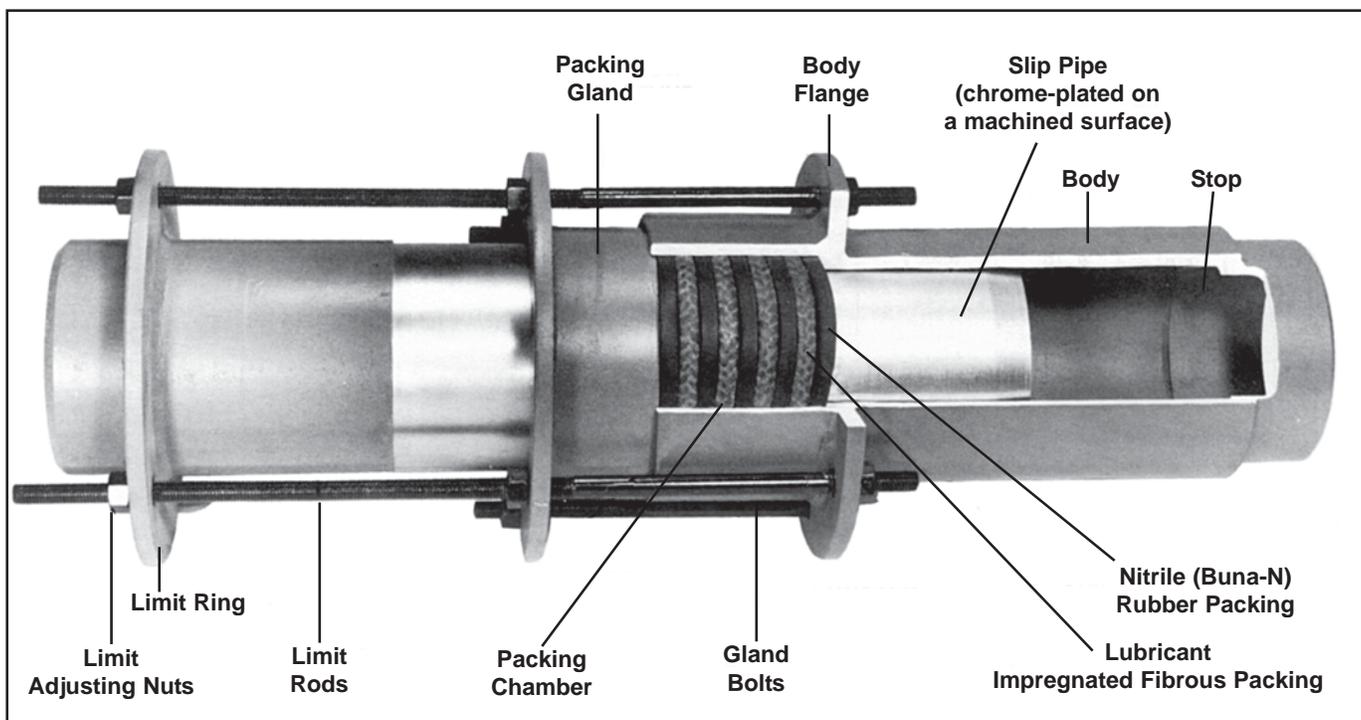
611 Expansion Joints can be furnished with a built-in anchor base when required.

Material Specifications

BODY:	Carbon Steel AISI C1015-20 or ASTM A283 GR. C.
SLIP PIPE:	Carbon Steel ASTM A53, ASTM A283 or AISI C1015-20. Hard chrome-plated on a machined surface.
GASKET:	Alternate square rings of lubricant impregnated fibrous packing and Nitrile (Buna-N) rubber-compounded to resist oil, natural gas, acids, alkalis, most (aliphatic) hydrocarbon fluids, water and many chemicals (contact Smith-Blair engineers for applications involving chemicals). Temperature range: -20°F to 180°F. For higher or lower temperatures, other types of packing materials can be furnished.
LIMIT RODS:	High strength low alloy steel with heavy, semi finished hexagon nuts.
BODY STUDS & BOLTS & NUTS:	High strength low alloy steel with heavy, semi finished hexagon nuts.
OPTIONAL:	Stainless Steel hardware for corrosive applications to allow re-torque of packing material.

Other materials available.

Material Specifications are subject to change.





611 Expansion Joints, Single End (10" Expansion) - Plain Ends Beveled for Welding

Without Slip Pipe - Without Limit Rods - Open (Cold) Length 26"		Steel Pipe Size		Catalog Number	Wt. Each Lbs.
	Nominal Pipe Size Inches	Pipe O.D. Inches (A)			
		3	3.50	611-03501010-000	50
	4	4.50	611-04501010-000	65	
	6	6.63	611-06631010-000	90	
	8	8.63	611-08631010-000	125	
	10	10.75	611-10751010-000	165	
	12	12.75	611-12751010-000	195	
	14	14.00	611-14001010-000	220	
	16	16.00	611-16001010-000	250	
	18	18.00	611-18001010-000	280	
	20	20.00	611-20001010-000	310	
	22	22.00	611-22001010-000	340	
	24	24.00	611-24001010-000	370	

When expansion joints are furnished without slip pipes, the customer is responsible for providing a smooth surfaced, properly sized slip pipe and assumes all responsibility for proper operation of the expansion joint. The customer furnished slip pipe must have a prepared end at least 24 inches long that is round, smooth and no greater than +.030" or -.010" from nominal size.

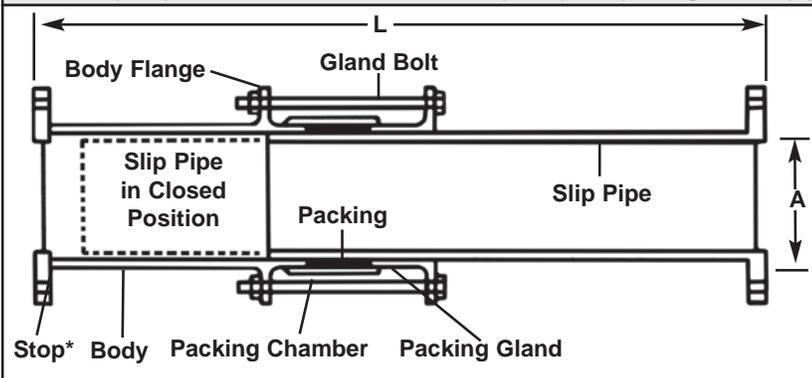
With Slip Pipe - Without Limit Rods - Open (Cold) Length 38" (L)		Steel Pipe Size		Catalog Number	Wt. Each Lbs.
	Nominal Pipe Size Inches	Pipe O.D. Inches (A)			
		3	3.50	611-03502010-000	75
	4	4.50	611-04502010-000	90	
	6	6.63	611-06632010-000	125	
	8	8.63	611-08632010-000	200	
	10	10.75	611-10752010-000	270	
	12	12.75	611-12752010-000	300	
	14	14.00	611-14002010-000	335	
	16	16.00	611-16002010-000	385	
	18	18.00	611-18002010-000	475	
	20	20.00	611-20002010-000	520	
	22	22.00	611-22002010-000	560	
	24	24.00	611-24002010-000	625	

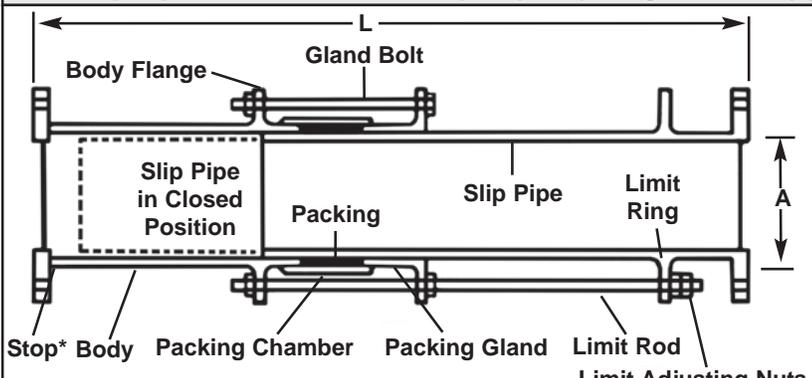
With Slip Pipe - With Limit Rods - Open (Cold) Length 40 1/2" (L)		Steel Pipe Size		Catalog Number	Wt. Each Lbs.
	Nominal Pipe Size Inches	Pipe O.D. Inches (A)			
		3	3.50	611-03503010-000	80
	4	4.50	611-04503010-000	100	
	6	6.63	611-06633010-000	150	
	8	8.63	611-08633010-000	200	
	10	10.75	611-10753010-000	265	
	12	12.75	611-12753010-000	330	
	14	14.00	611-14003010-000	380	
	16	16.00	611-16003010-000	430	
	18	18.00	611-18003010-000	480	
	20	20.00	611-20003010-000	540	
	22	22.00	611-22003010-000	595	
	24	24.00	611-24003010-000	650	

Larger sizes--up to 96" available on request. Other types of end connections available on request.



611 Expansion Joints, Single End (10" Expansion) - Flanged Ends

With Slip Pipe - Without Limit Rods - Open (Cold) Length 39" (L)		Steel Pipe Size		Catalog Number	Wt. Each Lbs.
		Nominal Pipe Size Inches	Pipe O.D. Inches (A)		
		3	3.50	611-03504010-000	90
		4	4.50	611-04504010-000	115
		6	6.63	611-06634010-000	165
		8	8.63	611-08634010-000	260
		10	10.75	611-10754010-000	355
		12	12.75	611-12754010-000	425
		14	14.00	611-14004010-000	515
		16	16.00	611-16004010-000	580
		18	18.00	611-18004010-000	735
		20	20.00	611-20004010-000	850
		22	22.00	611-22004010-000	930
		24	24.00	611-24004010-000	1065

With Slip Pipe - With Limit Rods - Open (Cold) Length 50 1/2" (L)		Steel Pipe Size		Catalog Number	Wt. Each Lbs.
		Nominal Pipe Size Inches	Pipe O.D. Inches (A)		
		3	3.50	611-03505010-000	95
		4	4.50	611-04505010-000	125
		6	6.63	611-06635010-000	185
		8	8.63	611-08635010-000	260
		10	10.75	611-10755010-000	350
		12	12.75	611-12755010-000	460
		14	14.00	611-14005010-000	560
		16	16.00	611-16005010-000	685
		18	18.00	611-18005010-000	740
		20	20.00	611-20005010-000	870
		22	22.00	611-22005010-000	965
		24	24.00	611-24005010-000	1090

Larger sizes up to 96" available on request. Other types of end connections available on request.

Slip-type expansion joints must be installed in an accessible location for future maintenance and packing adjustment.

When more than one Smith-Blair Expansion Joint is installed in a straight segment of pipe between two anchors, it must have limit rods. The limit rods limit the movement of each joint when the pipe contracts and internal stops (optional) will limit the movement in each joint when the pipe expands.

*Pipe stop optional.